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Dallas, TX 75	380	•	ART UNIT	PAPER NUMBER	
•		•	2192	2192	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Comments	10/600,056	HERLE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Chrystine Pham	2192				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 20 Ju	Responsive to communication(s) filed on 20 June 2003.					
, ,— , , , , , , , , , , , , , , , , ,						
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) <u>1-30</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-30</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>20 June 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
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Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date Notice of Informal Patent Application						
Matthe of Information Disclosure Statement(s) (P10/SB/06)						

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DETAILED ACTION

This action is responsive to application 10/600056 filed on June 20, 2003. Claims 1-30 are presented for examination.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-2, 11-12, 21-22 and 26-27 are rejected under 35 U.S.C. 102(e) as being anticipated by Imamatsu (Us 6,687,901 B1).

Claim 1

Imamatsu teaches a wireless communication device (see at least 10 FIG.3 & associated text; col.3:10-18) capable of downloading a software update file from a wireless network (see at least Abstract), said wireless communication device comprising: a non-volatile memory capable of being re-programmed by sectors (see at least 33 FIG.4A & associated text), wherein said non-volatile memory stores: 1) a target file to be updated (see at least 43 FIG.4A & associated text), 2) said downloaded software update file (see at least 44 FIG.4a & associated text; col.6:62-63; col.7:3-5; col.8:65-67), and 3) a journal comprising a plurality of entries, each of said plurality of

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entries containing status information associated with a re-programmed sector of said non-volatile memory (see at least 33, 42 FIG.4A & associated text; FIG.5 & associated text; col.6:1-6; col.7:50-col.8:32); a random access memory (see at least 23 FIG.3 & associated text; 34 FIG.4A & associated text); and a main processor (see at least 22 FIG.3 & associated text) capable of replacing target code in said target file with replacement code from said downloaded software update file (see at least col.15:34-55), wherein said main processor creates a first block of replacement code in said random access memory and re-programs a first target sector of said non-volatile memory by storing said first block of replacement code into said first target sector, and wherein said main processor updates first status information in a first entry in said journal associated with said first target sector (see at least 33, 42 FIG.4A & associated text; FIG.5 & associated text; col.6:1-6; col.7:50-col.8:32).

Claim 2

The rejection of base claim 1 is incorporated. Imamatsu further teaches wherein said first status information comprises a first parameter indicating that said first block of replacement code was successfully stored in said first target sector (see at least 33, 42 FIG.4A & associated text; FIG.5 & associated text; col.6:1-6; col.7:50-col.8:32).

Claims 11-12, 21-22, 26-27

Claims recite limitations which have been addressed in claims 1-2, therefore, are rejected for the same reasons cited in claims 1-2.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3-10, 13-20, 23-25, 28-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Imamatsu in view of Aija et al. (US 6,928,579 B2, "Aija").

Claim 3

The rejection of base claim 2 is incorporated. Imamatsu does not expressly disclose storing first target code from said first target sector in a save-area of said non-volatile memory prior to storing said first block of replacement code into said first target sector. However, Aija teaches a crash recovery system in which a wireless device (i.e., main processor) communicates with a server to receive software update (see at least Abstract), wherein said main processor is further capable of storing first target code from said first target sector in a save-area of said non-volatile memory (see at least \$22\$ FIG.4 & associated text) prior to storing said first block of replacement code into said first target sector (see at least \$26\$ FIG.4 & associated text). Imamatsu and Aija are analogous art because they are directed to wireless software update. It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teaching of Aija into that of Imamatsu for the inclusion of saving the current code (i.e., first target code) into a save-area of the non-volatile memory before storing the new code (i.e., replacement code) in the first sector. And the motivation for doing so would have been to revert back to the

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previous version (i.e., first target code) in response to system crash or user request (see at least

col.5:50-67).

Claim 4

The rejection of base claim 3 is incorporated. Imamatsu as modified by Aija further teaches

wherein said first status information comprises a second parameter indicating that said first target

code from said first target sector was successfully stored in said save-area of said non-volatile

memory (see at least 33, 42 FIG.4A & associated text; FIG.5 & associated text; col.6:1-6;

col.7:50-col.8:32).

Claim 5

The rejection of base claim 4 is incorporated. Aija further teaches wherein said main processor

is further capable of storing said first target code from said save-area back into said first target

sector after a power loss in said mobile station (see at least col.2:49-60; col.5:50-col.6:5).

Claim 6

The rejection of base claim 5 is incorporated. Imamatsu further teaches wherein said first block

of replacement code in said random access memory is equivalent in size to a sector of said non-

volatile memory (see at least col.6:15-21; col.7:3-5; col.8:65-67).

Claim 7

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The rejection of base claim 6 is incorporated. Imamatsu further teaches wherein said main processor, after said wireless communication device is restarted after a power loss, uses status information stored in said journal to identify a last successfully re-programmed sector in said non-volatile memory (see at least col.7:32-60; col.15:34-51).

Claim 8

The rejection of base claim 7 is incorporated. Imamatsu further teaches wherein said main processor resumes replacing target code in said target file with replacement code from said downloaded software update file by re-programming a next sequential sector in said non-volatile memory following said last successfully re-programmed sector (see at least FIG.5 & associated text; col.7:50-60).

Claim 9

The rejection of base claim 8 is incorporated. Imamatsu further teaches wherein said journal is stored in at least a first journal sector and a second journal sector of said non-volatile memory (see at least FIG.5 & associated text; col.7:50-60).

Claim 10

The rejection of base claim 9 is incorporated. Imamatsu further teaches wherein said main processor, in response to a determination that said first journal sector is full of journal entries, erases said second journal sector and stores a next journal entry in said second journal sector (see at least col.7:50-60).

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Claims 13-15, 23-25, 28-30

Claims recite limitations which have been addressed in claims 3-5, therefore, are rejected for the same reasons cited in claims 3-5.

Claim 16-20

Claims recite limitations which have been addressed in claims 6-10, therefore, are rejected for the same reasons cited in claims 6-10.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chrystine Pham whose telephone number is 571-272-3702. The examiner can normally be reached on Mon-Fri, 8:30am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Q. Dam can be reached on 571-272-3695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CP

December 10, 2006

CUPERVISORY PATENT EXAMINER